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NEWS 6 May 27 CAplus super roles and document types searchable in REGISTRY
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=> s (methyl cellulose) and (gel or hydrogel)
L1 27102 (METHYL CELLULOSE) AND (GEL OR HYDROGEL)

=> s l1 and (drug delivery)
1 FILES SEARCHED...
L2 2977 L1 AND (DRUG DELIVERY)

=> s l2 and viscosity
L3 1548 L2 AND VISCOSITY

=> s l3 and (w/w)
'W' IS NOT A VALID FIELD CODE
L4 0 L3 AND (W/W)

=> s l3 and concentration
L5 1403 L3 AND CONCENTRATION

=> s l5 and (insulin or (alpha interferon#) or (beta interferon#) or (FSH) or
(follicale stimulating hormone) or (growth factor#))
UNMATCHED LEFT PARENTHESIS 'AND (INSULIN'

The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s l5 and (insulin or (alpha interferon#) or (beta interferon#) or (FSH) or
(follicale stimulating hormone) or (growth factor#))
1 FILES SEARCHED...
L6 827 L5 AND (INSULIN OR (ALPHA INTERFERON#) OR (BETA INTERFERON#))
OR (FSH) OR (FOLLICALE STIMULATING HORMONE) OR (GROWTH FACTOR#))

=> s l6 and (topical? or nasal? or rectal? or oral? or ophthalm? or ocular? or
mucosal? or pulmonar? or inhal?)
L7 800 L6 AND (TOPICAL? OR NASAL? OR RECTAL? OR ORAL? OR OPTHALM? OR
OCULAR? OR MUCOSAL? OR PULMONAR? OR INHAL?)

=> s l7 and (apparent viscosity)
L8 9 L7 AND (APPARENT VISCOSITY)

=> ds l8 1-9 ibib abs
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"HELP COMMANDS" at an arrow prompt (=>).

=> d l8 1-9 ibib abs

L8 ANSWER 1 OF 9 USPATFULL on STN
 ACCESSION NUMBER: 2004:139366 USPATFULL
 TITLE: Compositions and methods for enhancing receptor-mediated cellular internalization
 INVENTOR(S): Deaver, Daniel R., Franklin, MA, UNITED STATES
 PATENT ASSIGNEE(S): Edwards, David A., Boston, MA, UNITED STATES
 The Penn State Research Foundation (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004106542	A1	20040603
APPLICATION INFO.:	US 2003-717251	A1	20031119 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2002-120940, filed on 10 Apr 2002, GRANTED, Pat. No. US 6652873 Continuation of Ser. No. US 1999-412821, filed on 5 Oct 1999, GRANTED, Pat. No. US 6387390		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-103117P	19981005 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	PATREA L. PABST, HOLLAND & KNIGHT LLP, SUITE 2000, ONE ATLANTIC CENTER, 1201 WEST PEACHTREE STREET, N.E., ATLANTA, GA, 30309-3400	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	1149	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for improving cellular internalization of one or more compounds are disclosed. The compositions include a compound to be delivered and a biocompatible viscous material, such as a **hydrogel**, **lipogel**, or highly viscous soluble. The composition also include, or are administered in conjunction with, an enhancer in an amount effective to maximize expression of or binding to receptors and enhance RME of the compound into the cells. This leads to high transport rates of compounds to be delivered across cell membranes, facilitating more efficient delivery of drugs and diagnostic agents. Compositions are applied **topically orally, nasally, vaginally, rectally, and ocularly**. The enhancer is administered with the composition or separately, either systemically or preferably locally. The compound to be delivered can also be the enhancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 2 OF 9 USPATFULL on STN
 ACCESSION NUMBER: 2004:126444 USPATFULL
 TITLE: Compositions of polyacids and polyethers and methods for their use in reducing pain
 INVENTOR(S): Schwartz, Herbert E., Redwood City, CA, UNITED STATES
 Blackmore, John M., Redwood City, CA, UNITED STATES
 Cortese, Stephanie M., Atascadero, CA, UNITED STATES
 Oppelt, William G., Arroyo Grande, CA, UNITED STATES
 DiZigera, Gere, San Luis Obispo, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004096422	A1	20040520
APPLICATION INFO.:	US 2003-666804	A1	20030919 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-472110, filed on 27 Dec 1999, PENDING Continuation-in-part of Ser. No. US 1998-23097, filed on 13 Feb 1998, GRANTED, Pat.		

No. US 6034140 Division of Ser. No. US 1997-877649,
filed on 17 Jun 1997, GRANTED, Pat. No. US 5906997

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-127571P	19990402 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FLIESLER MEYER, LLP, FOUR EMBARCADERO CENTER, SUITE 400, SAN FRANCISCO, CA, 94111	
NUMBER OF CLAIMS:	66	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	34 Drawing Page(s)	
LINE COUNT:	5181	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to improved methods for reducing pain and organ dysfunction using bioadhesive, bioresorbable, anti-adhesion compositions made of intermacromolecular complexes of carboxyl-containing polysaccharides, polyethers, polyacids, polyalkylene oxides, multivalent cations and/or polycations. The polymers are associated with each other, and are then either dried into membranes or sponges, or are used as gels, fluids or microspheres. Compositions are useful in surgery to prevent the formation and reformation of post-surgical adhesions. The compositions are designed to breakdown in-vivo, and thus be removed from the body. Membranes are inserted during surgery either dry or optionally after conditioning in aqueous solutions. Anti-adhesion, bioadhesive, bioresorptive, antithrombogenic and physical properties of such membranes and gels can be varied as needed by carefully adjusting the pH and/or cation content of the polymer casting solutions, polyacid composition, the polyalkylene oxide composition, or by conditioning the membranes prior to surgical use. Membranes and gels can be used concurrently. Antiadhesion compositions may also be used to lubricate tissues and/or medical instruments, and/or deliver drugs to the surgical site and release them locally.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 3 OF 9 USPATFULL on STN
ACCESSION NUMBER: 2003:95806 USPATFULL
TITLE: Process for the preparation of aqueous dispersions of particles of water-soluble polymers and the particles obtained
INVENTOR(S): Vanderhoff, John W., Bethlehem, PA, United States
Lu, Cheng Xun, Somerset, NJ, United States
Lee, Clarence C., Lilburn, GA, United States
Tsai, Chi-Chun, Lawrenceville, GA, United States
PATENT ASSIGNEE(S): C. R. Bard, Inc., Murray Hill, NJ, United States (U.S. corporation)
Lehigh University, Bethlehem, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6544503	B1	20030408
APPLICATION INFO.:	US 2000-563037		20000501 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1997-989888, filed on 12 Dec 1997, now patented, Pat. No. US 6214331 Continuation-in-part of Ser. No. US 1996-659770, filed on 6 Jun 1996, now abandoned Continuation-in-part of Ser. No. US 1995-466676, filed on 6 Jun 1995, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Page, Thurman K.		
ASSISTANT EXAMINER:	Nola-Baron, Liliana Di		

LEGAL REPRESENTATIVE: Kilpatrick Stockton LLP
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 3525

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention is a process for the preparation of crosslinked water-swellable polymer particles. First, an aqueous polymer solution containing a water-soluble polymer having at least one functional group or charge, is combined with aqueous medium. The aqueous polymer solution is then mixed under moderate agitation with an oil medium and an emulsifier to form an emulsion of droplets of the water-soluble polymer. A crosslinking agent capable of crosslinking the functional groups and/or charges in the water-soluble polymer is then added to the emulsion to form crosslinked water-swellable polymer particles. The invention also includes the particles formed by the process and aqueous dispersions containing the particles which are useful for administering to an individual. The particles of the invention are useful for implantation, soft tissue augmentation, and scaffolding to promote cell growth.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 4 OF 9 USPATFULL on STN
ACCESSION NUMBER: 2002:213430 USPATFULL
TITLE: Compositions and methods for enhancing receptor-mediated cellular internalization
INVENTOR(S): Deaver, Daniel R., Franklin, MA, UNITED STATES
Edwards, David A., Boston, MA, UNITED STATES
PATENT ASSIGNEE(S): The Penn State Research Foundation (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002114803	A1	20020822
	US 6652873	B2	20031125
APPLICATION INFO.:	US 2002-120940	A1	20020410 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-412821, filed on 5 Oct 1999, GRANTED, Pat. No. US 6387390		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-103117P	19981005 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	PATREA L. PABST, HOLLAND & KNIGHT LLP, SUITE 2000, ONE ATLANTIC CENTER, 1201 WEST PEACHTREE STREET, N.E., ATLANTA, GA, 30309-3400	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	1149	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for improving cellular internalization of one or more compounds are disclosed. The compositions include a compound to be delivered and a biocompatible viscous material, such as a hydrogel, lipogel, or highly viscous soluble. The composition also include, or are administered in conjunction with, an enhancer in an amount effective to maximize expression of or binding to receptors and enhance RME of the compound into the cells. This leads to high transport rates of compounds to be delivered across cell membranes, facilitating more efficient delivery of drugs and diagnostic agents. Compositions are applied **topically, orally, nasally, vaginally, rectally, and ocularly**. The enhancer is administered with the composition or separately, either systemically or preferably locally. The compound to be delivered can also be the

enhancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 5 OF 9 USPATFULL on STN
ACCESSION NUMBER: 2002:108620 USPATFULL
TITLE: Compositions and methods for enhancing
receptor-mediated cellular internalization
INVENTOR(S): Deaver, Daniel R., Franklin, MA, United States
Edwards, David A., Boston, MA, United States
PATENT ASSIGNEE(S): The Penn State Research Foundation, University Park,
PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6387390	B1	20020514
APPLICATION INFO.:	US 1999-412821		19991005 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-103117P	19981005 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Azpuru, Carlos A.	
LEGAL REPRESENTATIVE:	Holland & Knight LLP	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 5 Drawing Page(s)	
LINE COUNT:	1185	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for improving cellular internalization of one or more compounds are disclosed. The compositions include a compound to be delivered and a biocompatible viscous material, such as a **hydrogel**, lipogel, or highly viscous soluble. The composition also include, or are administered in conjunction with, an enhancer in an amount effective to maximize expression of or binding to receptors and enhance RME of the compound into the cells. This leads to high transport rates of compounds to be delivered across cell membranes, facilitating more efficient delivery of drugs and diagnostic agents. Compositions are applied **topically orally, nasally, vaginally, rectally, and ocularly**. The enhancer is administered with the composition or separately, either systemically or preferably locally. The compound to be delivered can also be the enhancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 6 OF 9 USPATFULL on STN
ACCESSION NUMBER: 2001:51555 USPATFULL
TITLE: Process for the preparation of aqueous dispersions of particles of water-soluble polymers and the particles obtained
INVENTOR(S): Vanderhoff, John W., Bethlehem, PA, United States
Lu, Cheng Xun, Somerset, NJ, United States
Lee, Clarence C., Lilburn, GA, United States
Tsai, Chi-Chun, Lawrenceville, GA, United States
PATENT ASSIGNEE(S): C. R. Bard, Inc., Murray Hill, NJ, United States (U.S. corporation)
Lehigh University, Bethlehem, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6214331	B1	20010410
APPLICATION INFO.:	US 1997-989888		19971212 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-659770, filed on 6 Jun 1996, now abandoned Continuation-in-part of Ser. No. US 1995-466676, filed on 6 Jun 1995, now abandoned

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Kulkosky, Peter F.

LEGAL REPRESENTATIVE: Kilpatrick Stockton LLP

NUMBER OF CLAIMS: 29

EXEMPLARY CLAIM: 1

LINE COUNT: 3840

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention is a process for the preparation of crosslinked water-swellable polymer particles. First, an aqueous polymer solution containing a water-soluble polymer having at least one functional group or charge, is combined with aqueous medium. The aqueous polymer solution is then mixed under moderate agitation with an oil medium and an emulsifier to form an emulsion of droplets of the water-soluble polymer. A crosslinking agent capable of crosslinking the functional groups and/or charges in the water-soluble polymer is then added to the emulsion to form crosslinked water-swellable polymer particles. The invention also includes the particles formed by the process and aqueous dispersions containing the particles which are useful for administering to an individual. The particles of the invention are useful for implantation, soft tissue augmentation, and scaffolding to promote cell growth.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 7 OF 9 USPATFULL on STN

ACCESSION NUMBER: 1999:146020 USPATFULL

TITLE: Materials and methods for enhancing cellular internalization

INVENTOR(S): Edwards, David A., State College, PA, United States
Deaver, Daniel R., Port Matilda, PA, United States
Langer, Robert S., Newton, MA, United States

PATENT ASSIGNEE(S): The Penn State Research Foundation, University Park, PA, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 5985320 19991116

APPLICATION INFO.: US 1997-810275 19970303 (8)

NUMBER	DATE
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PRIORITY INFORMATION: US 1996-12721P 19960304 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Kishore, Gollamudi S.

LEGAL REPRESENTATIVE: Monahan, Thomas J.

NUMBER OF CLAIMS: 33

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 7 Drawing Figure(s); 7 Drawing Page(s)

LINE COUNT: 991

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for delivering agents across cell membranes are disclosed. The compositions include an agent to be delivered, a viscous material, such as a hydrogel, lipogel or viscous sol, and, optionally, a carrier that includes a ligand that binds to or interacts with cell surface receptors. The agent to be delivered binds to or otherwise interacts with cell surface receptors, is attached, either covalently or ionically to a molecule that binds to or interacts with a cell surface receptor, or is associated with the carrier. Agents to be delivered include bioactive compounds and diagnostic agents. The

compositions have an **apparent viscosity** roughly equal to the **viscosity** of the cytosol in the cell to which the agent is to be delivered. The rate of cellular internalization is higher when the **viscosity** of the viscous material and that of the cytosol in the cell are approximately the same, relative to when they are not the same. The compositions enhance cellular entry of bioactive agents and diagnostic materials when administered vaginally, **nasally, rectally, orally, orally**, or to the respiratory or pulmonary system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 8 OF 9 USPATFULL on STN
 ACCESSION NUMBER: 95:88501 USPATFULL
 TITLE: Bioactive composition
 INVENTOR(S): Amidon, Gordon L., 2079 S. 7th St., Ann Arbor, MI,
 United States 48103
 Chandrasekharan, Ramachandran, 4448 Swiss Stone La.,
 Ypsilanti, MI, United States 48197
 Goldberg, Arthur H., 143 Montclair Ave., Montclair, NJ,
 United States 07042

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5455286		19951003
APPLICATION INFO.:	US 1994-284171		19940802 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-4584, filed on 14 Jan 1993, now abandoned which is a division of Ser. No. US 1991-772511, filed on 27 Jun 1991, now patented, Pat. No. US 5221698		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Michl, Paul R.		
ASSISTANT EXAMINER:	DeWitt, LaVonda R.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 14 Drawing Page(s)		
LINE COUNT:	1049		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An improved bioactive agent delivery composition and method of application are described. The composition comprises a bioactive agent, a hydrophilic polymer in an incompletely hydrated state and a substantially water-miscible solvent system. The agent and polymer are essentially dissolved in the solvent system to form a sprayable composition having a **viscosity** of less than 350 cP. Upon dilution with water, the **viscosity** of the composition increases to in excess of 1000 cP to produce a retentive coating at the site of application which provides enhanced bioavailability of the agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 9 OF 9 USPATFULL on STN
 ACCESSION NUMBER: 93:50568 USPATFULL
 TITLE: Bioactive composition
 INVENTOR(S): Amidon, Gordon L., Ann Arbor, MI, United States
 Chandrasekharan, Ramachandran, Ypsilanti, MI, United States
 Goldberg, Arthur H., Montclair, NJ, United States
 The Regents of the University of Michigan, Ann Arbor, MI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5221698		19930622

APPLICATION INFO.: US 1991-722511 19910627 (7)
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Michl, Paul R.
ASSISTANT EXAMINER: DeWitt, LaVonda
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 14 Drawing Figure(s); 14 Drawing Page(s)
LINE COUNT: 970

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An improved bioactive agent delivery composition and method of application are described. The composition comprises a bioactive agent, a hydrophilic polymer in an incompletely hydrated state and a substantially water-miscible solvent system. The agent and polymer are essentially dissolved in the solvent system to form a sprayable composition having a **viscosity** of less than 350 cP. Upon dilution with water, the **viscosity** of the composition increases to in excess of 1,000 cP to produce a retentive coating at the site of application which provides enhanced bioavailability of the agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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